

Application No. 10/695,015
Amendment dated March 14, 2006
Reply to Office Action of December 14, 2005

Docket No.: PI 1330 USNA

AMENDMENTS TO THE CLAIMS

1. (currently amended) A process for hydrocyanation of at least one substrate selected from the group consisting of 2-pentenitrile, 3-pentenitrile, 4-pentenitrile, and 2-methyl-3-butenitrile comprising contacting the substrate with hydrogen cyanide in the presence of a zero-valent nickel hydrocyanation catalyst and a promoter, wherein said promoter is ~~obtained as a byproduct from~~ of a method for producing titanium tetrachloride from titanium ore, said method comprising the steps of contacting a titanium-containing ore with chlorine under reducing conditions to obtain a gaseous reaction product, recovering titanium tetrachloride from the reaction product, thereby leaving behind a residue, and condensing the residue to obtain a said byproduct, ~~that and~~ wherein said byproduct comprises at least one compound selected from the group consisting of iron (II) chloride, and manganese (II) chloride.